

MAGNETIC HEAD WITH THINNED T-SHAPED WRITE POLE, AND ITS FABRICATION

ABSTRACT OF THE DISCLOSURE

A magnetic head includes a magnetic write structure having a first magnetic layer having a first pole, a second magnetic layer having a second pole spaced apart from the first pole, and a third magnetic layer having a third pole contacting the second pole. The third pole has a third-pole width greater than a second-pole width. An inductive coil positioned adjacent to the third magnetic layer controllably magnetizes the third magnetic layer. The third magnetic layer is nonuniformly thick such that a thickness of the third pole is less than a thickness of the third magnetic layer at locations in registry with the inductive coil. The magnetic write structure is conveniently fabricated by depositing the magnetic layers and the inductive coil, masking the third magnetic layer other than the third pole, and removing a portion of the thickness of the third pole.